

MILLER, P.D.

MODELS: Miller Y-1S (Formerly Stearman-Hammond), 2 PCLM

T.C. NUMBER: 644

(Type Certificate holder, P.D. Miller, Concrete, Skagit County WA)

Engine	Menasco Pirate C4S
Fuel	73 minimum octane aviation gasoline
Engine limits	Maximum, except take-off
	-- 32.3 in.Hg., 2260 rpm (150 hp)
	Take-off (one minute)
	-- 34.7 in.Hg., 2260 rpm (150 hp)
Airspeed limits	Level flight or climb - 125 mph True Ind.
	Glide or dive - 170 mph True Ind.
	Flaps extended - 81 mph True Ind.
Propeller limits	Maximum permissible diameter 85-1/2 inches
C.G. range	(+17.2) to (+24.2)
Datum	Wing leading edge at fuselage
Maximum weight	2250 lbs.
No. seats	2 (-20)
Maximum baggage	100 lbs. (-1)
Fuel capacity	43 gallons (two 21-1/2 gallon tanks in wing) (+7)
Oil capacity	4 gallons (-1)
Certification basis	Type Certificate No. 644 (Aero Bulletin 7A requirements)
Production basis	None (See NOTE A)
Serial Nos. eligible	304 and up (See NOTE A)
Required equipment:	Items 101, 102, 103, 104, 105, 106

Eligible for export as follows subject to inspection for equipment specified in Chapter XII of Inspection Handbook:

- (a) Canada
 - Landplane
 - Skiplane - not eligible.
- (b) All other countries except Great Britain, Australia and New Zealand.

Propeller and Propeller Accessories:

106. Propeller - wood (fixed pitch)	23 lbs.	(+56)
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Engines and Engine Accessories - Fuel and Oil System:

101. Starter (Eclipse E-80)	19 lbs.	(+11)
102. Oil cooler		
302. Engine shielding	2 lbs.	(+29)
305. Pressure fire extinguisher	17 lbs.	(+7)

Landing Gear and Floats:

104. 21-inch streamline rear wheels (Hayes 2100M) and tires		
105. 18-inch streamline nose wheel (Hayes 1801A) and tire		

Electrical Equipment:

103. Battery (Exide 6TS-7-1)	25 lbs.	(0)
303. Generator (Hodges wind-driven)	8 lbs.	(+35)

NOTE A. Prior to original certification, each aircraft must satisfactorily pass:

- (a) An inspection for workmanship, materials and conformity before any covering, metal priming or final finish is applied. All woodwork may be varnished.
- (b) A final inspection of the completed aircraft.
- (c) Check of flight characteristics.